

YUANXIAN HIGH-TECH MATERIAL

PLASTIC POLYMER MATERIAL SUPPLIER



Yuanxian High-Tech Material Trading (Tianjin) Co.,ltd

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COMPANY INTRODUCTION

Yuanxian High-tech Material Corporation, with a registered capital RMB 10 million, is located in free trade zone in Tia-njin,less than one hour way from the biggest sea port in North of China, Xingang Port, Tianjin. All custom clearance is q- uick and export procedure is easy, Since its foundation. Yuanxian high-tech material is concentrating all efforts on the f- ield of new materials, especially on the section of plastic material, such as PE/PP/PET/PVC, PLA/PBAT/PBS etc; and on the section of high strength, high tractility, high temperature resistance steel material; and other sections, most of our business also involves in auto industry.

All our products are existing and applied with the purpose of saving energy and reducing carbon dioxide emissions.



In the area of plastic products, PET and PVC materials are widely used as raw material in the process of producing window film for commerial building, family homes and cars. Our plants adopt international advanced material formulation and production workmanship, the products have the features ,high block rate of infrared ray ,which largely reduce the increase of heat in summer, and the loss of heat in winter; PLA, PBAT and PBS is not petroleum based plastic, which is biodegradable ,do not need to be processed in the environment

In the area of steel products, along with the increase in the amount of investment in infrastructure ,geotechnical projects , as well as the rapid development of real estate industry, we start to pay more and more attention for the performance

of the steel, we require the materials with high tensile strength, the best tractility, and the excellent performance of hydr- ogen embrittlement resistance and stress corrosion resistance. In this section, we are in the position to supply PC strand, PC wire, PS bars, Anchorage and some other ceramic-base steel products.

In the area of auto industry, we concentrate on the supply of power battery package, ceramic separator film for power battery, and tires.

Our Values:

Operational excellence :

Striving and achieving excellence in all we do ensures that we stand head and shoulders above our competitors.

Commitment to quality:

Benchmarking our products and service delivery to international quality standards are an uncompromising feature of our business

Relationship Building:

Forging mutually beneficial & long term relationships with suppliers and principals with honesty and integrity equates to long-term sustainability.

Customer satisfaction :

Unwavering commitment to addressing our customer needs fully and efficiently forms the building blocks of our business.

Innovation:

At the forefront of technological advancements, from customers' feedback, to target market demand survey, to products' design from our technology department, finally to the new products' launch in the market, the whole circle time is very short.



Our Attitude:

We stand depending on Honesty, Integrity, Trust and Dignity, and grow with our partners. We are serious to customers' requirement, give stability of attention on these requirements ,and supply the right product to them.

PLASTIC MATERIAL

Relying on the strong R&D ability of our factory ,we use materials PP/PE/PET/PVC and PLA/PBAT/PBS widely in our produce of sheet products. The main finished products include window film in optical area and Battery Seperator in electronic area, 100% compostable film and bags in biodegradable area.

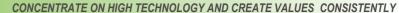
We have professional tech team and advanced test equipments, which guarantee the high quality conforminity products to be provided to our partners.





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01/02





PLASTIC MATERIAL

Window film

1.Used in the fields of thermo-insulated car, building, saving energy, and safety. Our products have the features: high res- olution, high insulation, low reflection, anti glare, anti scratch, private peep,never fading, explosion prevention and safety of UV, never fading, environ-

2.Used for decorative purpose, about 200 photo graphics as choices, and short time of new products dvelopment. High- clear 3D effect and great texture in surface. The features: low reflection, anti glare, anti scratch, private peep, never fading, environment-friend-

Battery Separator

PP, PE or multi-layer composite membrane as base, the surface coated with a layer of nano-alumina material, and proc- essed by a special workmanship, bond with the base , significantly improve the high temperature performance and safety of lithium-ion batteries. And the substrate bonding. Significantly improve the high temperature performance and safety of lithium-ion batteries. Ceramic coated special diaphragm is particularly suitable for power batteries.

Our seperator products ' features:

- Resistant to organic solvents
- high tensile strength, high puncture strength;
- ♦ low heat shrinkage; higher rupture temperature
- ♦ Good compatibility with electrolyte and high liquid absorption rate

Compostable Film and Related products

- Raw Material
- Modified Material
- Finished product :film
- Finished product: bags



PRODUCTS LIST

Detailed Products List

>>> Window Film (PVC,PET)

Solar Window Film	0
Commercial Window Film	0
Silver Window Film	0
Safety Window Film	06
Decorative Window Film	06
Color Tint	06

>>> Battery Separator(PE,PP)

4			_	
Wet Process	Membrane	TSL08-A	A0202	0
Wet Process	Membrane	TSL08-F	20202	0
Wet Process	Membrane	TSL12-A	40202	0
Wet Process	Membrane	TSL12-F	0202	0
Wet Process	Membrane	TSL12-A	40404	0
Wet Process	Membrane	TSL12-F	0404	0
Wet Process	Membrane	TSL14-A	40204	0
Wet Process	Membrane	TSL14-A	40303	0
Wet Process	Membrane	TSL14-A	40404	0
Wet Process	Membrane	TSL16-A	40202	0
Wet Process	Membrane	TSL16-A	40404	0
Wet Process	Membrane	TSL08-A	404	0
Wet Process	Membrane	TSL12-A	404	0
Wet Process	Membrane	TSL12-F	0202	0
Wet Process	Membrane	TSL16-A	40404	0
Wet Process	Membrane	MSL		0

>>> Compostable Products (PLA,PBAT,PBS)

aw Materiai - PLA	. 09
aw Material - PBS	10
aw Material - PBAT	. 11
odified Material - Film BlowingGrade YPMH - S200	12
odified Material - Film BlowingGrade YPMH - S300	. 14
ompostable Film - Agriculture Mulch Film	16
ompostable Film - Stretch Film	. 17
ompostable Film - Cling Film Wrap	18
ompostable Bags - Food Bags	19
ompostable Bags - Carrier Bags	20
ompostable Bags - Garbage Bags	21
ompostable Bags - Bags for Pet	22
thers	22

Our Understanding to Products and attitude to our partners' requirements

>>> To Products

Our products must be exactly needed by our clients, any our products must meets following all points,

- 1. should be close to the cost target.
- 2 . should definitely solve the problem , and should exactly meet clients' all requirements
- 3 . really could creat the values and profits for our clients

>>> To Partners' requirements

Every client is our Potential Partner, we without any reasons, need to thank them for the time taking on us, we have to return back with the values we could creat by all our resources, we are doing like this all the time,

- 1 . we respect all the requirements from our clients , carefully study and analyse , find the exact and key points
- 2. work efficiently, within shortest time give the solutions to clients.

We are open to everyone who want to do business with us for long term

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>> Plastic Material >> Window Film

>> Solar Window Film

Our factory make full use advantages of China Space Science and Technology, base on many years' research in the area of composite materials fine chemicals and high precision coating technology, adopt advanced coating wormanship and laminate technology to develop top-level insulation nano-ceramic and muti-layer sputtering window film for automobile industry.

Our products have the features

- high performance of thermal insulation, (less air-conditioner usage means less fuel burned)
- no signal interference
- more than 99% uv blocking rate, protect interior and skin
- limited lifetime warrantv

We have following specifications

Series	Code	Visible Light Transmittancef%)	Visible Light Reflectance (%)	Infrared Rejection rate (%)	UltraViolet(UV) Rejection rate (%)
Premier Series	PF-NCVS80	80	10	70	>99
Premier Series	PF-NCVS70	70	8	90	>99
Premier Series	PS-NCVS10	16	7	48	>99
Premier Series	PF-MSVS70A	71	13	65	>99
Premier Series	PF-MSVS70B	72	12	82	>99
Premier Series	PF-MSSD60	64	11	55	>99
Premier Series	PF-MSSD80	80	10	15	>99
Premier Series	PS-ELSD10A	15	12	40	>99
Premier Series	PS-ELSD10B	12	45	85	>99
Premier Series	PS-ELSD20A	24	12	40	>99 .
Premier Series	PS-ELSD20B	22	32	75	>99
Premier Series	PS-ELSD30	35	12	61	>99
Premier Series	PS-ELSD40	40	8	37	>99
Wisdom Series	WS-ELVS30A	32	13	38	>99
Wisdom Series	WS-ELVS30B	38	20	52	>99
Wisdom Series	WS-ELVS10	14	7	51	>99

Note: PF- Permier series for Front window . PS • Permier series for Side and Rear window WS- Wisdom Series for Side and Rear window

>> Commercial Window Film

- For commercial building window glass
- Ceramic technology combines with excellent heat rejection performance
- Enhance energy-efficiency that make the room cooler in Summer and warmer in Winter ,Lower energy costs by reducing heat loss in winter and cooling costs in summer
- ♦ No signal interference cell Phone, radio, GPS
- No color fading





Item	Thickness	VLT	IR rejection	UV cut	Color
XIR7090	2mil	70%	90%	99%	Light blue
XIR6393	3mil	68%	95%	99%	Light blue
GWR8050	1.5mi l	80%	50%	99%	Light blue

>> Silver Window Film





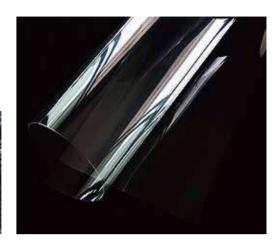
- One way vision ♦ Metallized reflective
- ♦ IR rejection
- ♦ UV block

Code	Color	Plies	Thickness	VLT	IR Cut	UV cut
SF series	silver / color silver	2	2mil	5%-30%	70%-99%	99%

>> Safety Window Film

- ♦ Great explosion-proof
- No Yellowing, No Cracking, and No Delaminating.
- ♦ 99% UV protection Performance.
- Super optical clarity
- Super optical polvester.
- ♦ No Rainbow, No Orange peel.





Code	Color	Color	Thickness	VLT	IR rejection	UV cut	PEELING STRENGTH	PUNCTURE STRENGTH
B109	Transparent	1	2mil	88%	10%	99%	>5lbs	>30lbs
B102-2	Transparent	1	4mil	88%	10%	99%	>5 l bs	>65 l bs
B103	Transparent	2	8mil	87%	10%	99%	>5 l bs	>130lbs
B112	Transparent	3	12mil	86%	0%	99%	>5 l bs	>195lbs

>> Decorative Window Film (Static Window Film)



- ♦ 99% anti-UV,
- Environment-friendly
- ♦ Adhesive-free ,No glue
- Privacy protection, good translucent
- Perfect combination of praticability and taste. from color tint to frosted effects and more, Add privacy, add style,
- Static window film is unaffected by steam and moisture, making it prefect for bathroom
- ♦ Static cling film install in minutes with just water and the free applicator
- Easy to trim size
- ♦ Remove easily with no residue

>> Installment Steps











1. Clean glass

2. Spray some water

3. Peel off the release film stick the film on the glass

4. Scrape bubbles

5. Fine cut the edge

Full graphics / patterns for static window film , please see find in appendex

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05/06



>> Plastic Material

>> Battery Separator (PE ,PP,etc.)

Our company has many years of experience in the field of lithium battery separators. At present, there are two production processes, wet method and dry method, with a monthly supply capacity of 20 million square meters.

Dry method specifications:

♦ MSL16-A0404,

Wet method specifications:

♦ TSL08-A0202.TSL08-P0202.TSL12-A0202.TSL12-P0202.

◆ TSL12-A0404,TSL12-P0404,TSL14-A0204,TSL14-A0303,

◆ TSL14-A0404,TSL16-A0202,TSL16-A0404,TSL08-A04,





The raw materials used in the dry method are of good fluidity and low molecular weight (ie, simpler raw materials), so the high temperature can only reach 135 degrees (thermal shutdown temperature), and it will shrink (<5%) when heated, and Safety is not suitable for high-power, high-capacity batteries; dry method can do three-layer film, the advantage of three-layer film is that the thermal shutdown temperature is 135 degrees, but the thermal stability temperature is 160 degrees, which can prevent thermal inertia, there is a space of 25 degrees, which is safer.

The wet method uses non-flowing, high molecular weight raw materials, and the thermal shutdown temperature can reach 180 degrees (the ceramic inorganic separators can reach 200 degrees), which can ensure the safety of high-power batteries; the wet method can only be used as a single-layer film











Some equipments and production lines

The characteristics of the separator produced by our company,

- ♦ Cost-effective
- High security
- ♦ Good circulation





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PRODUCTS INTRODUCTION

>> Plastic Material

>> Compostable Products

>> Raw Material - PLA

The lactic acid monomer is made from fermented plant starch such as from corn.

Polylactic acid (PLA) can be completely decomposed into carbon dioxide and water under natural conditions after being discarded.

Item No: YPRX-PLA01

Molecular formula: H-[OCHCH,CO]_-OH

CAS NO: 26100-51-6

Color: White

Standard: GB/T 29284-2012

PLA can be made into film products with high transparency, good barrier properties, excellent processability and mechanical properties, and can be used for flexible packaging of fruits and vegetables.

PLA objects can be fabricated by 3D printing, casting, injection moulding, extrusion, machining, and solvent welding.



Monomer content and D-content	%	0.3
Density	g/cm³	>1.24
Particle Diameter	mm	2
Melt index (190-C/2.16kg)	g/10min	10
Melting point	C	>165
Tensile Strength at Break	MPa	>45
Elongation at break	%	>5
Tensile Modulus	Gpa	6.5
Notch Impact Strength	kJ/m²	>4
HDT(0.45Mpa)	Ċ	>100
Bending strength	MPa	>70
Transmittance	%	>95
Degradation Rate	%	>95

PLA can form a weakly acidic environment on the surface of the product. It has a basis for antibacterial and antifungal. If other antibacterial agents are used in addition, it can achieve an antibacterial rate of more than 90%, and can be used for antibacterial packaging of products.

ltem	Unit	PP	GPPS	PET	PLA
Density	g/cm³	0.9——0.91	1.04——1.09	1.3——1.4	1.25
Melt index	g/10min	02——20	1.5——30		130
Tensile strength	MPa	29.6——35	58.8	60	50
Elongation	%	200——700	1.0——2.5	30——70	5
Transmittance	%	85——88	88——92	90——92	90——95

>> Raw Material - PBS



No	Item			Unit	YPRX-PBS01	YPRX-PBS02	
1		10	Standard value	g/cm ³	1.	25	
'	Density	, 25 C	Deviation	g/ciii*	±0.	.03	
2		Densit	y, 25 °C	C	105-	-116	
3	MF	-R	Standard value	g/10min	≤10	10~20	
	NII IX		Deviation	9/10/11	≤10	10~20	
4	Moisture		%	≤0.2			
5		Hydroxy	l content	mo l /t	≤50		
		Lvalue	Standard value	_	≥75		
	Color	olor A value	Nominal value	_	≤5		
6	Color		Deviation	_	±0.5		
	value	B value	Nominal value	≤11		11	
		D value	Deviation		±1		
7	Bre	Breaking tensile strength		MPa	≥2	5.0	
8	Tensile strai		n at breaking	%	≥1	50	
9		Bending	strength	MPa	≥2	5.0	
10		Bending	modulus	MPa	≥400		

Polybutylene succinate

Item No.: YPRX-PBS01, YPRX-PBS02

Molecular Formula: HO-(CO-(CH₂)₄-CO-O-(CH₂)₄-O)_a-H

CAS NO: 25777-14-4 **Standard:** GB/T30294-2013

Color: Natural white

Raw Material: BDO (1,4-butanediol) Succinic Acid Application: injection molding tablewares and cutlery textile, fishing net, engineering components medical

applications, etc

PBS is a degradable and environment-friendly material. Lanshantun River PBS has excellent mechanical properties, close to PP and ABS plastics; The heat resistance is good, the thermal deformation temperature is close to 100 centigrade, and the service temperature after modification can exceed 100 centigrade.

PBS is widely used in packaging (including food packaging, cosmetic bottles, drug bottles), tableware, disposable medical supplies, agricultural film, pesticide and fertilizer slow-release materials, biomedical polymer materials and other fields. It can not only meet the demand through petrochemical products, but also produce natural renewable crop products such as cellulose, dairy by-products, glucose, fructose and lactose through biological fermentation, so as to realize green circular production from nature and return to nature.





>> Plastic Material

>> Compostable Products

>> Raw Material - PBAT

PBAT (short for polybutylene adipate terephthalate) is a biodegradable random copolymer, specifically a copolyester of adipic acid, 1,4-butanediol and terephthalic acid (from dimethyl terephthalate).

It is generally seen as a fully biodegradable alternative to low-density polyethylene, having many similar properties including flexibility and resilience, which makes it ideal for blending with another biodegradable polymer, allowing it to be used for many similar uses such as plastic bags and wraps.



Item No: YPRX-PBAT01

Molecular formula: H-(O-(CH2)4-O-CO-(CH2)4-CO-)n-(O-(CH2)4-O-CO-C6H4-CO-)m-H

CAS NO: 55231-08-8 Color: Natural white

Standard: GB/T32366-2015
Raw material: BDO (1,4-butanediol),
PTA (terephthalic acid) Adipic Acid

Item No: YPRX-PBAT01

No	Item		Unit	Value	
1	Density, 25 °C			g/cm ³	1.23±0.03
2		Melting Point, pm MFR		C	110~145
3				g/10min	2.5~4.5
4		Me	oisture	%	0.1
5	Hydroxyl content		mo l /t	50	
	Color	Lvalue	Standard value	_	70
			Nominal value	_	5
6			Deviation		±1
			Nominal value		10
			Deviation		±1
7	Bre	aking ter	sile strength	MPa	15
8	Ter	nsi l e strai	n at breaking	%	500
9		Bending strength		MPa	3
10		Bending	modulus	MPa	30
11	Vic	at softeni	ng point A50	C	80
12		Ash c	ontent	%	0.1

>> Modified Material

Film Blowing Grade YPMH-S200



Film Blowing Grade PLA Modified Material PLA+PBAT+STARCH
Item Code:YPMH-S200

Recommended application

Shopping vest bag,wrist bag,roll bag,food preservation bag;Electronic product packaging film,household

appliance packaging film, medical hygiene film, etc

Product characteristics

- 1. Good coloring performance, stable melt strength, and can be directly processed into various films;
- 2. It is usually light white or light yellow, has fragrance, is easy to be decomposed by microorganisms,
 - and has natural antistatic property;
- 3. Good heat stability of raw materials, good recyclability of leftover materials, high temperature and strong shear force;
- 4. This product has low moisture content. It is vacuum packed and can be used after opening.



Material properties

Item	test method	Conditions for item	Unit	Result[1]
Melt flow rate	180 1133	190℃ ,2.16kg	g/10min	4.0-7.0
Density	1S0 1183	23℃	g/cm ³	1.27-1.32
Melting point	DSC	-	C	110-130

[1] The above data are measured values, not guaranteed values.



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PRODUCTS INTRODUCTION

>> Plastic Material

>> Compostable Products

>> Modified Material

Film Blowing Grade YPMH-S200

Film Blowing Grade PLA Modified Material PLA+PBAT+STARCH Item Code:YPMH-S200



Processing parameters

Тетре	Temperature 		Reference range
Melting temperature		120℃	115-125 °C
	Posterior segment	025 ℃	120-130℃
Temperature of film blowing heating area	Middle segment	130 ℃	125-135℃
	Anterior segment	135℃	130-140℃
Mould head temperature		135 ℃	130-140℃
Upper limit of processing temperature		180 ℃	

[2] The above data are typical values and are only for reference. In the actual processing process, the parameters can be adjusted appropriately.

Characteristic[4]	test method	Conditions for testing	Unit	Typical value[5]
Tensile strength longitudinal /transverse	1S0 527	25 C	MPa	21/12
Elongation at break longitudinal /transverse	1S0 527	25 °C	%	250/600
Dart impact	1S0 7765-1	25 °C	g	150

[3]Typical films are produced by film blowing mechanism with the material YPMH-M300,film thickness

[4] The data are measured by the newly produced film and can not be used as the basis for judging material quality;

[5]The above data are typical values, not guaranteed values

>> Modified Material

Film Blowing Grade YPMH-M300



Film Blowing Grade PLA Modified Material PLA+PBAT+STARCH Item Code:YPMH-M300

Recommended Applications

Shopping vest bags, wrist bags, rolling bags, food preservation bags; packaging films for electronic products, packaging films for home appliances, medical sanitary films, etc.

Product Features

- 1. Independent core technology, high product strength, more than 30% higher than the tensile strength of conventional commercial products;
- 2. Good coloring performance, stable melt strength, and can be directly processed into various films;
- 3. It is usually light white, fragrant, easy to be decomposed by microorganisms, and has natural antistatic
- 4. The raw materials have good thermostability,good recyclability of leftover materials,and can withstand high temperature and strong shear force.

Material properties

ltem	test method	Conditions for item	Unit	Result[1]
Melt flow rate	1S0 1133	190 ℃ ,2.16kg	g/10min	3.0-6.0
Density	1S0 1183	23 °C	g/cm³	1.38-1.43
Melting point	DSC	-	C	110-130

[1]The above data are measured values, not guaranteed values.

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>> Plastic Material

>> Compostable Products

>> Modified Material

Film Blowing Grade YPMH-M300

Film Blowing Grade PLA Modified Material PLA+PBAT+STARCH Item Code:YPMH-M300



Processing parameters

Tempe	rature	Typical value [2]	Reference rance
Meling temperature		125℃	120-130 ℃
	125 ℃	145 C	140-150℃
Temperature of film blowing heating area	145°C	145 C	140-150℃
	145 °C	150℃	145-150℃
Mould head temperature		150℃	145-150 ℃
Upper limit of processing temperature		190℃	

[2] The above data are typical values and are only for reference. In the actual processing process, the parameters can be adjusted appropriately.

Typical film properties[3]

Characteristic [4]	test method	Conditions for testing	Unit	Typical value [5]
Tensile strength longitudinal / transverse	ISO 527	25℃	МРа	17/13
Elongation at break longitudinal / transverse	ISO 527	25 ℂ	%	300/500
Dart impact	ISO 7765-1	25 ℂ	g	190

- [3] Typical films are produced by film blowing mechanism with the material YPMH-M300, film thickness is 28 microns;
- [4] The data are measured by the newly produced film and can not be used as the basis for judging material quality;
- [5] The above data are typical values, not guaranteed values

>> Compostable Film

Agriculture Mulching Film

- ♦ Thickness: 0.006 mm 0.025 mm, width: 900 mm -2100 mm, length: according to customer requirements
- ♦ Made by biodegradable material PLA and PBAT, it has biodegradability and can be applied to mechanical and manual laying

 • As per effective service life , we have 4 grade

Туре	Service Life	Туре	Service Life
I	≤ 60 days	III	>90,≤120days
II	> 60, ≤90 days	IV	> 120 days





Mechanical Property

Items	Values		
Items	thickness < 0.010mm	0.010 mm ≤thickness<0.015mm	thickness≥0.015mm
Tensile load (longitudinal and transverse) / N	≥ 1.5	≥ 2.0	≥ 2.2
Nominal strain at break (longitudinal) /%	≥ 150	≥ 150	≥ 200
Nominal strain at break	≥ 250	≥ 250	≥ 280
(transverse) /% Right angle tensile load /%	≥ 0.80	≥ 0.80	≥ 1.2

Water vapor permeance

Grade	Water vapor permeability g / (M2 * 24h)
Α	< 800
В	800 - 1600
С	≥ 160

Application:

Our biodegradable agriculture muching film has already been used in peanut cultivation, potato planting, corn planting, tobacco planting, cotton planting, garlic planting.

Field residual film treatment:

A small amount of residual film carried on the crop straw does not need to be removed, and can be used to make feed with the crop straw; Residues on the soil surface can be ploughed and integrated into the soil and kept buried.





Yuanxian High-Tech Material Trading (Tianjin) Co., Itd

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PRODUCTS INTRODUCTION

>> Plastic Material

>> Compostable Products

>> Compostable Film

Stretch Film for industry Packing



Application: Airport packing and logistics packing

Features:

- ♦ Raw material : PLA+PBAT
- ♦ 100% compostable and biodegradable
- Good self stickiness, no glue
- Excellent performance for pallet wrapping

Sizes:

- ♦ Thickness range: 10-30 micron
- ♦ Width range: 30-60 cm
- ♦ Length range:15m-10000m
- ♦ Packaging choice: in roll with paper core

NAME	BINDING USE STRETCH FILM	MANUAL USE WRAPPING FILM	MACHINE USE WRAPPING FILM
SPECIFICATION (W x L) (Thickness)	10 cm x 150 m 13 micon	45 cm x 400 m 20 micon	50 cm x 1000 m 23 micon
PACKING WAYS	40 rolls / carton	4 rolls / carton	1 rolls / carton
OUTTER CARTON DIMENSION	32 x 26 x 22.5 cm	25 x 25 x 47.5 cm	21.5 x 21.5 x 53 cm
PAPER CORE SIZE	30 mm	50 mm	76 mm

Above datas in the table just as reference, the actual parameter should be as per final products.

>> Compostable Film

Cling Film Wrap



Application:

Home use , keep meat,fruit.vegetables fresh safe using in Micro-oven,Freezer

Material: PLA+PBAT

Features:

- color: transparent, with good transparence, and well clingy properties.
- ♦ 100% biodegradable and compostable wrap cling,conform EN13432 and ASTM D6400, AS5810 standard. In an industrial composting environment, the film is completely degraded to water and carbon dioxide within 180 days.
- ♦ good self stickiness,no glue
- good stretching effect, more times stretching effect than traditional wrapping film, the use cost is greatly reduced, and the same number of meters can wrap more.
- High toughness and puncture resistance,full toughness, strong elasticity, not easy to puncture and damage in the packaging process, effectively protecting.
- Food grade safety, with non-toxic, breathable, reduce mildew, prevent food oxidation function, can lock the food fresh well.

Size:

- ♦ Thickness range: 10-30 micron
- ♦ Width range: 30-60 cm
- Length range:15m-10000m
 Packaging choice: in roll with paper core



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- >> Plastic Material
- >> Compostable Products
- >> Compostable Bag

Food Bag



Application:

home use , food/fruits/vegetables fresh bag / storage bag / freezer bag

Features:

- ♦ 100% biodegradable & compostable
- ♦ Point Breaking design
- ♦ Service life: 10 months
- ♦ Printing :1 color on one side

- ♦ Bag Size, Bag Qty per roll and package could be customized
- ◆ Two types available : flat bag on roll , ziplock bag.



Flat Bag on roll

Size	L x W (cm)	Thickness (mic)
Small	20 x 30	18
Medium	25 x 35	18
Large	30 x 40	18



Ziplock bag	LxW	Thickness (mic)
proon aug	18 X 17	50
	22 X 15	50



>> Compostable Bag

Carrier bag



Application:

T-shirt bags ,these are generally used to carry purchases in grocery market, retail stores, restaurants, convenience stores ,super market .

D-cut bags, these are generally used to carry purchases in clothes shop, books shop, shoes shop, Jewelry Store

Features:

- Fully biodegradable, more environmentally friendly
- Good load-bearing, no stranglehold
- It is tightly sealed and not easy to leak
 Strong handle, stretch performance is good.
- Constant temperature process and tight edge sealing
- Excellent ink, clear printing

Size:

♦ Bag Size, Bag Qty per package and package ways could be customized

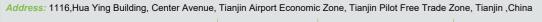


T-shirt / Vest bags

Size	Dimension (cm)	Thickness (mic)
Small	35 x (20+7x2)	20
Medium	50 x (35+7x2)	25
Large	60 x (40+7x2)	25

D- cut bags

Cut bag	Dimension (inch)	Thickness (mic)	
	9" x 12"	50	





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Garbage Bages/Can liner



Application:

These are commonly used as trash can liners, and wast treatment for home and industry.

Features:

- Stretch well, not easy to break
- Excellent material, not easy to drip
- ♦ Environmentally friendly printing, highlighting personalization
- ♦ Customized size and packaging to meet personalized requirements
- ♦ 100% biodegradable, degradation time and required conditions: in the case of composting, it can be completely biodegradable within 12-24 weeks, and finally decomposed into CO2 and H2O, which has no toxic and side effects on crops, can alleviate soil hardening, and fully conforms to international standards.

Code	Color	Thickness
Small	43x45cm	18 mic
Medium	60x80cm	20 mic
Large	80x100cm	25 mic

Other Sizes:

Dimension:Customized Color: Customized Printing:customized Thickness: customized







Roll Bag



Drawtape Bag

>> Compostable Bag

Bags for Pet



Features:

- ♦ Raw material: PLA resin+corn starch+PBAT,100% Biodegradable and compostable
- Degradability:3-6 months under compost condition
- Portable, convenient and hygienic, thickened and durable, full of toughness, they' re strong, thick enough to be reassuring and not let you feel what you're picking up too closely, but also easy to be separated from roll.
- ♦ Excellent material, firm and leak proof
- ♦ Point break design, easy to tear
- ♦ Paper roll core, environmental protection peer
- Small and exquisite, multi-color options. The measure is 9 x 13 inches so they' re a great size for most dogs and make cleaning up
- flexible packing ways, perfect and affordable for multiple pet households

Dimension [cm] [inch]	Thickness	Packing	N.W. (g/pc)	Size of Outter Carton (cm)	N.W. (kg/carton)	MOQ (pcs)
23cmx33 cm 9"x13" 17 mic	15 pcs / roll 200 rolls / outter carton	3.2	32x32x29	11	20000	
	15 pcs / roll 324 rolls / outter carton	3.2	29x29x26	18	20000	
	17 mic	15 pcs / roll 8 rolls / box 20 boxes / outter carton	3.2	40x32.5x14.5	10	20000
		15 pcs / roll 18 rolls / box 12 boxes / outter carton	3.2	42.5x32.5x15.5	13	20000

Other size

Size:

Accept customized

Thickness :

Accept customized in the range 12-200 micron

Printing:Gravure printing, 1-8 colors available, Accept customized, MOQ should be discussed.